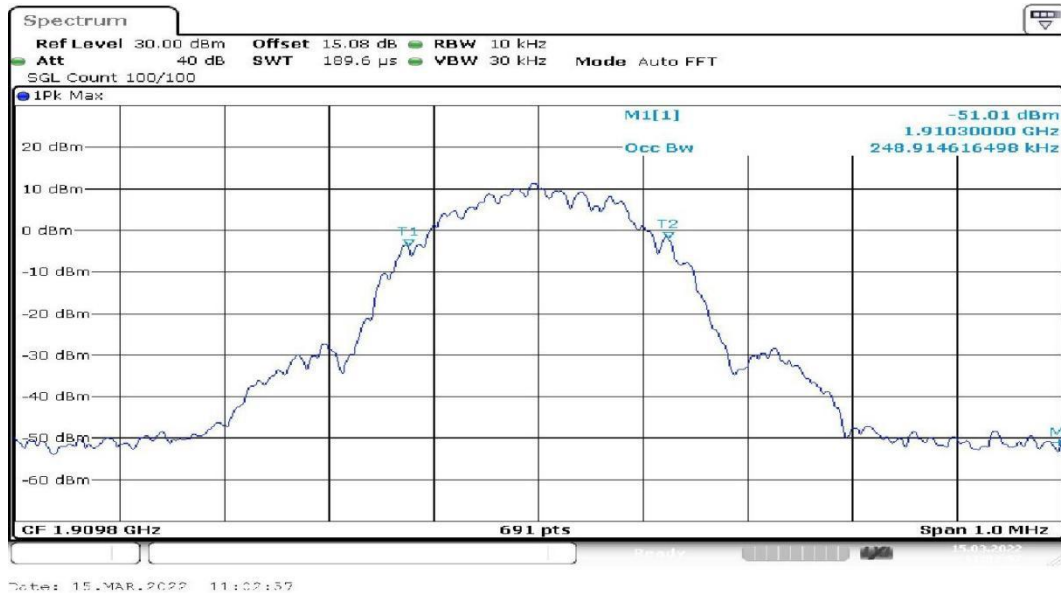




Channel 661



Channel 810

3. Emission Bandwidth

PCS1900

GSM MODE:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power(kHz)
1850.2	512	309.70
1880	661	308.20
1909.8	810	325.60

GPRS MODE:

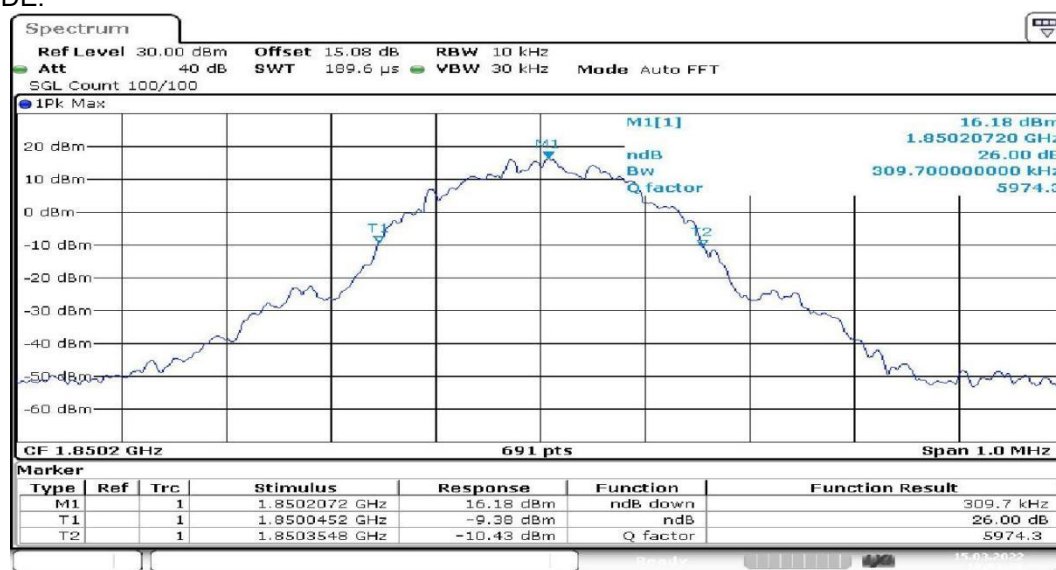
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB (kHz)
1850.2	512	312.60
1880	661	312.60
1909.8	810	311.10

EGPRS (8PSK) MODE:

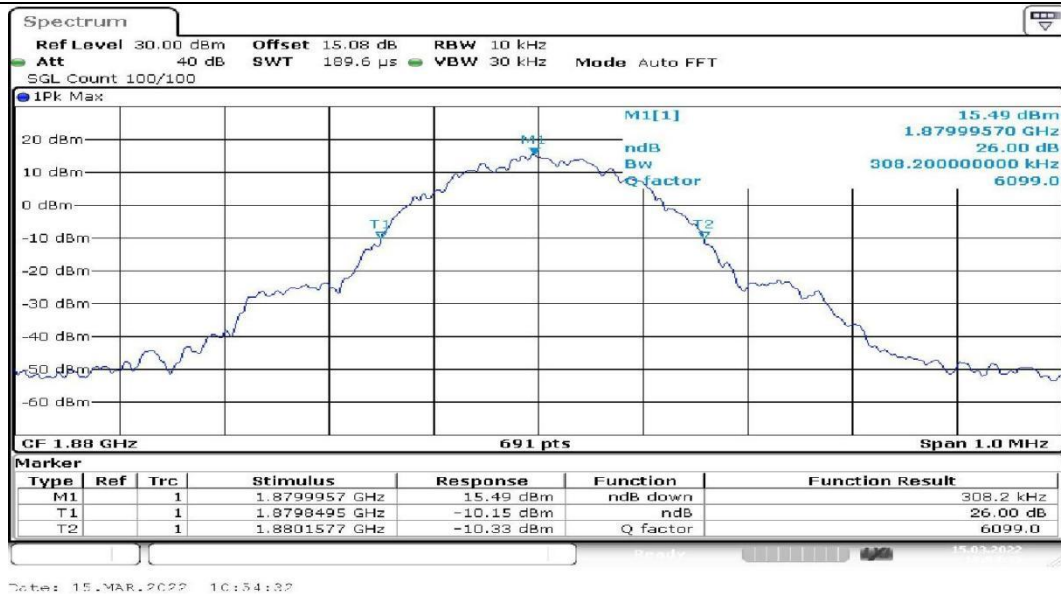
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power(kHz)
1850.2	512	303.90
1880	661	292.30
1909.8	810	316.90

PCS1900

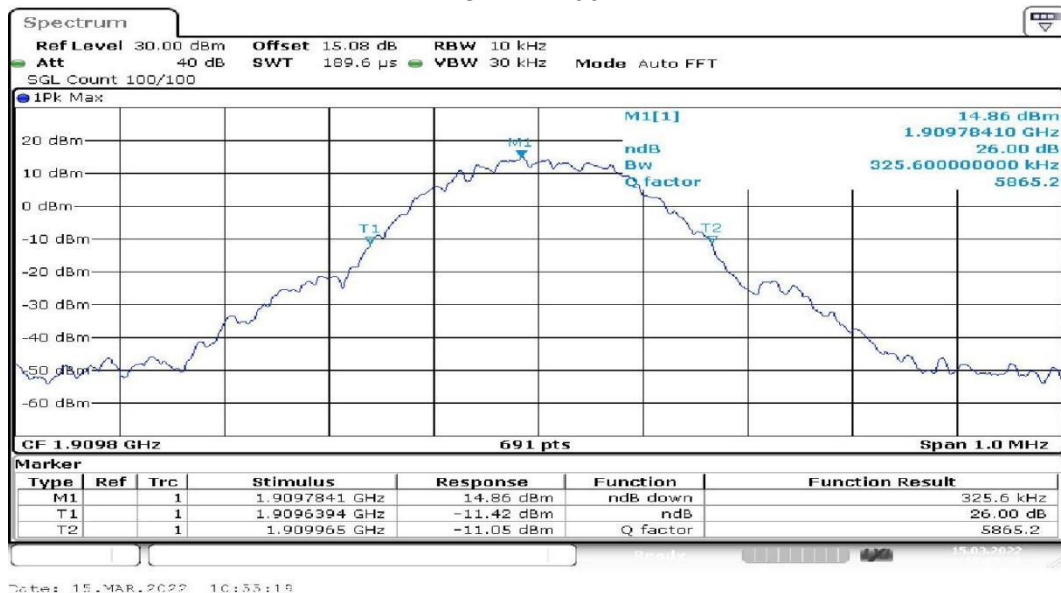
GSM MODE:



Channel 512

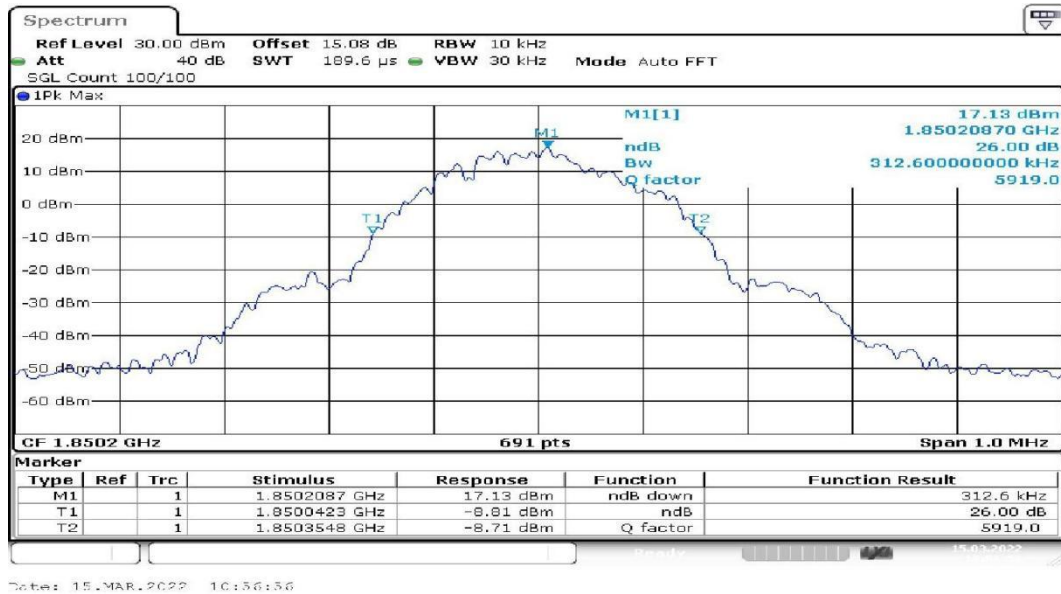


Channel 661

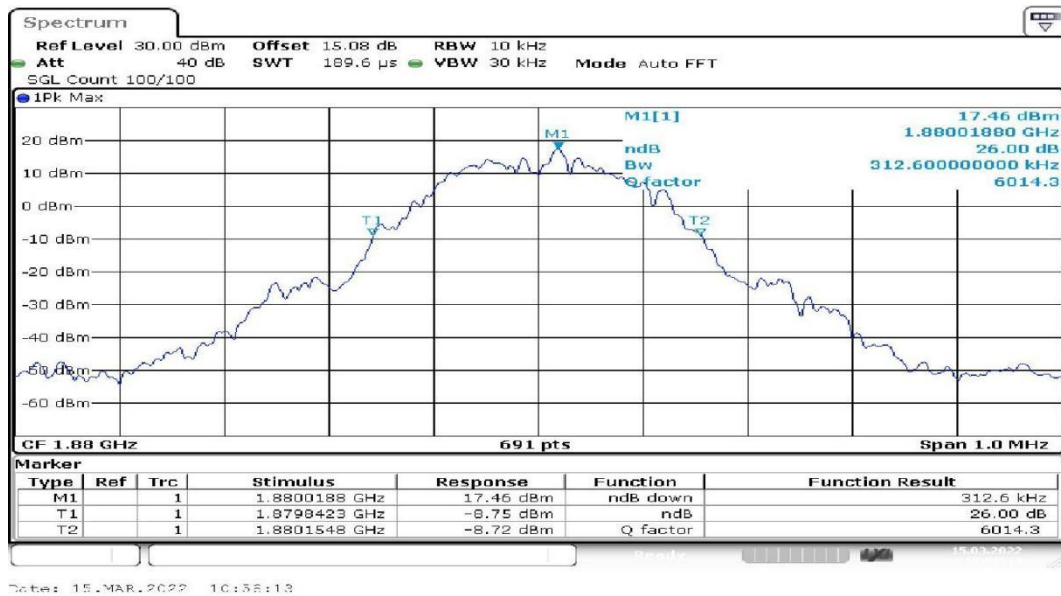


Channel 810

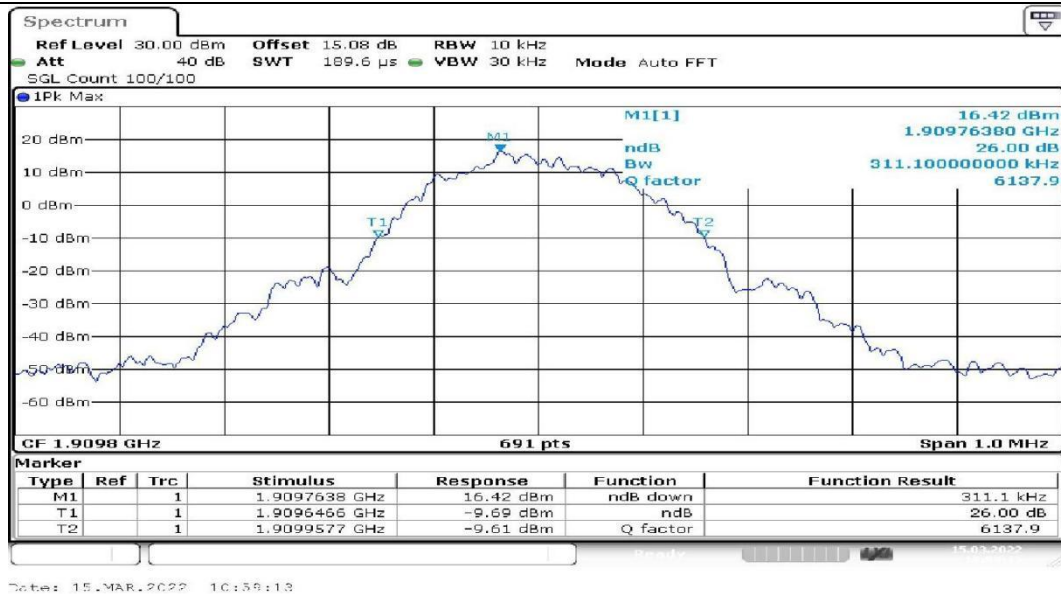
GPRS MODE:



Channel 512

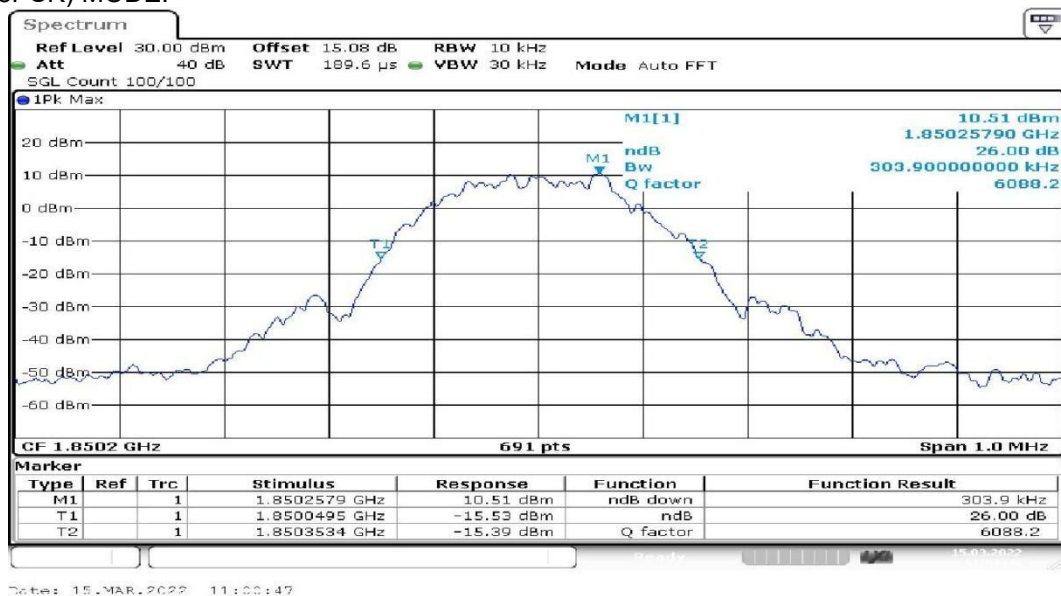


Channel 661

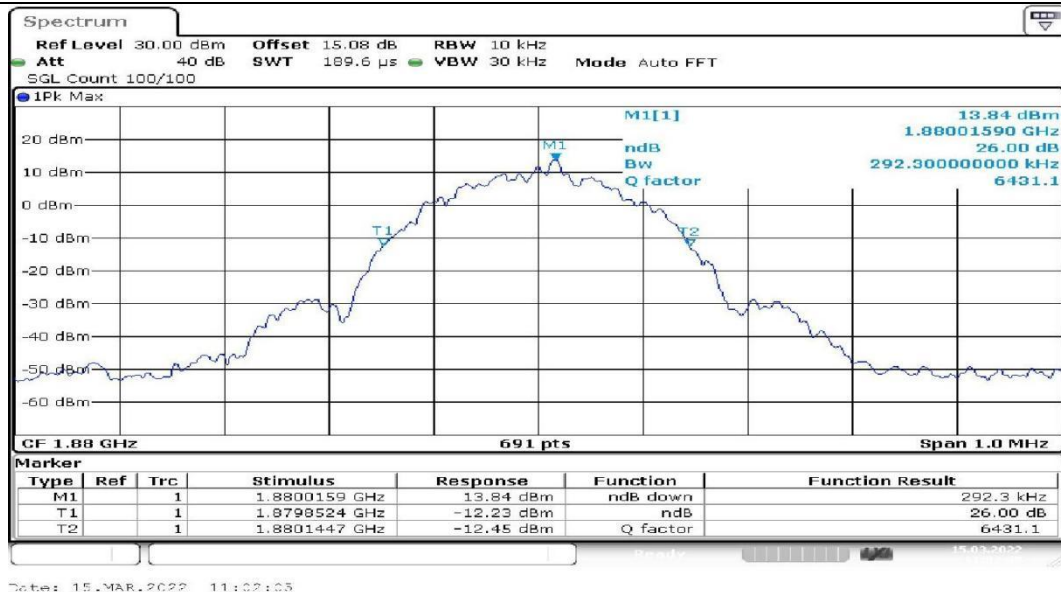


Channel 810

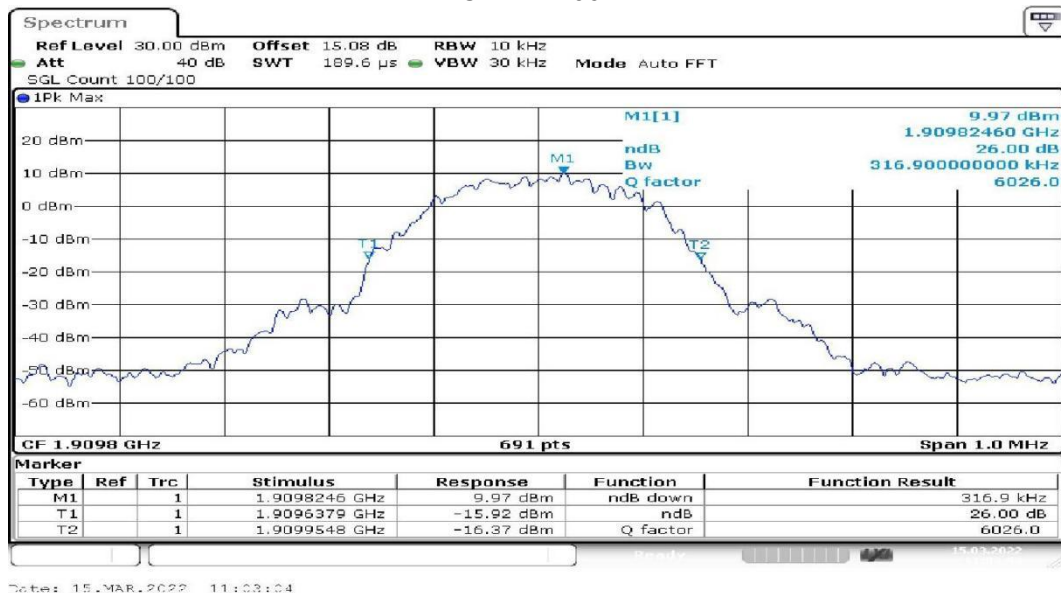
EGPRS (8PSK) MODE:



Channel 512



Channel 661

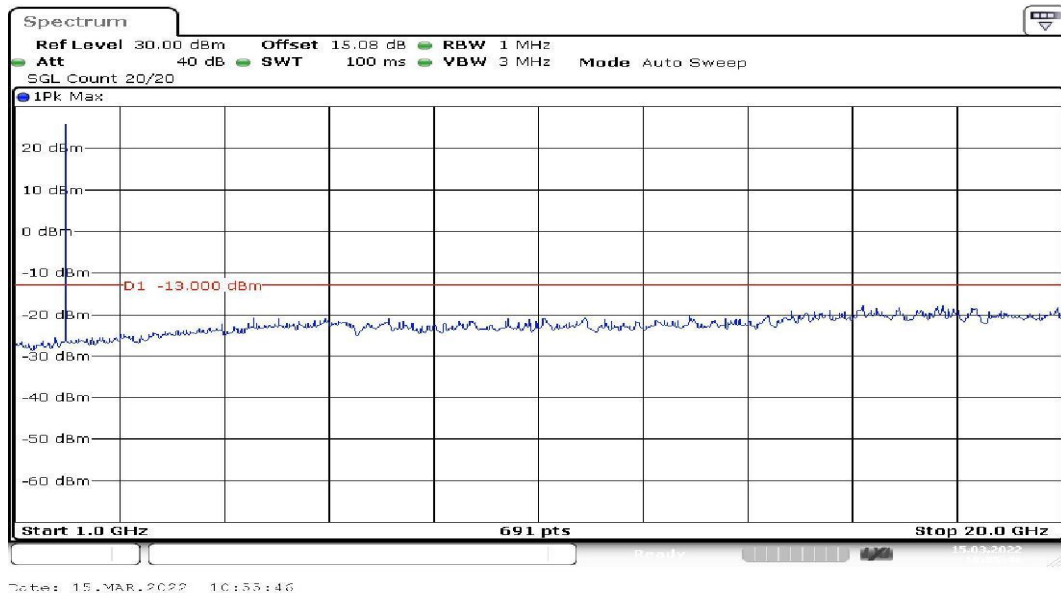


Channel 810

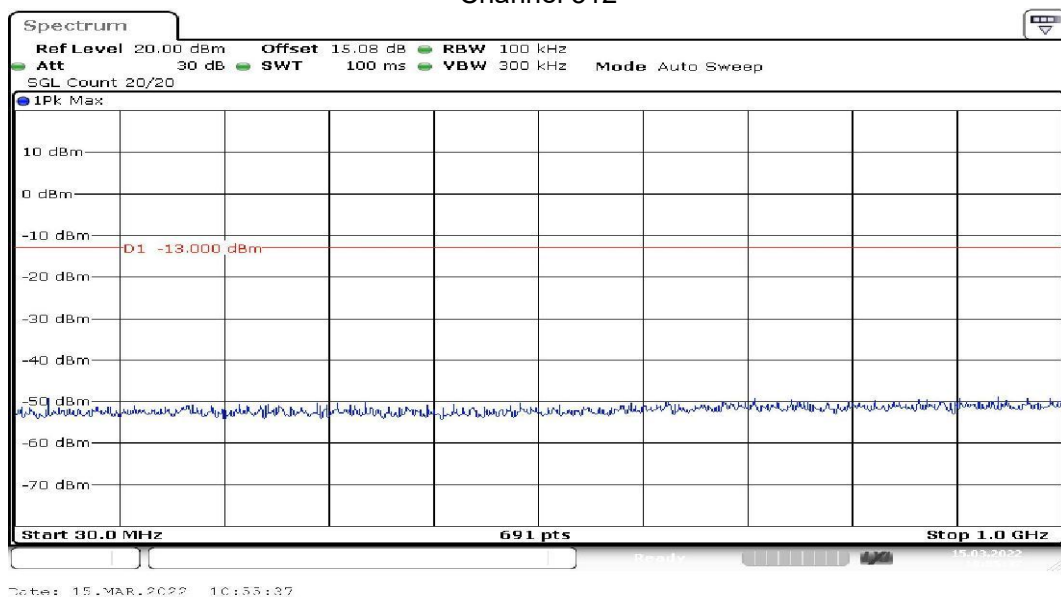
4. Spurious Emissions at antenna terminal

PCS1900

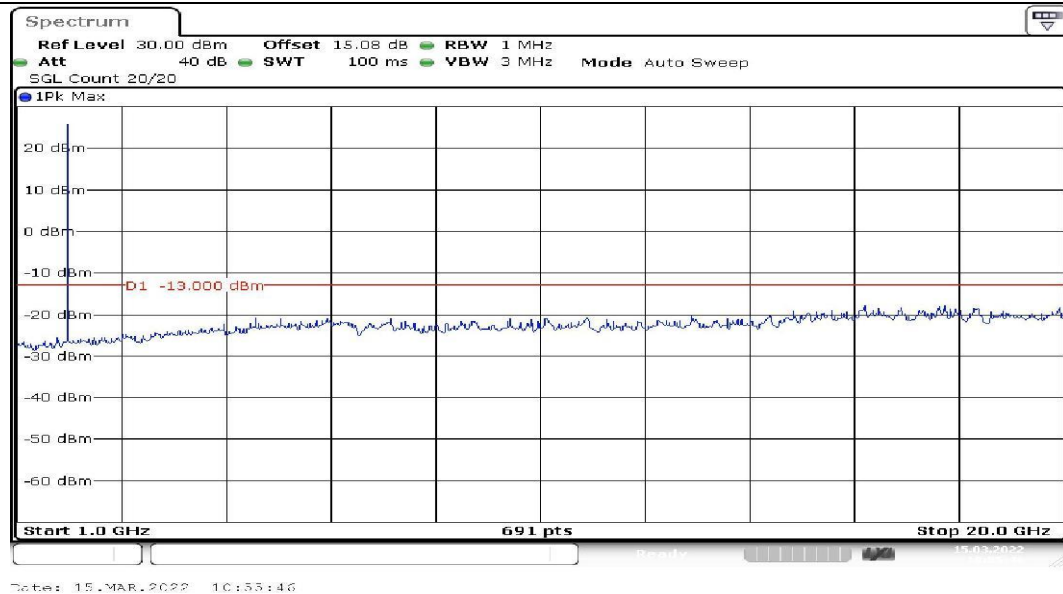
GSM MODE:



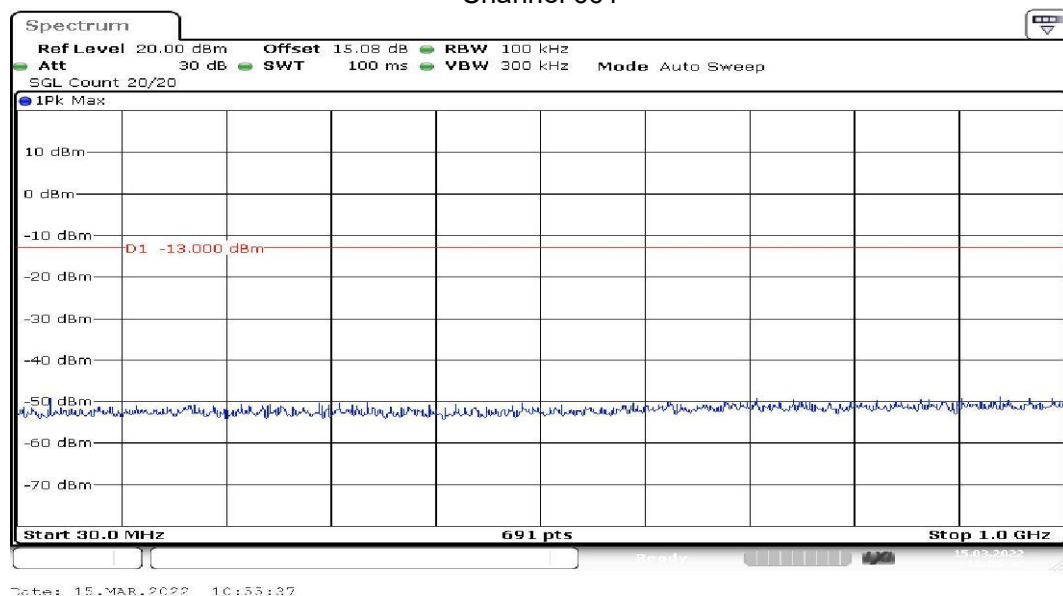
Channel 512



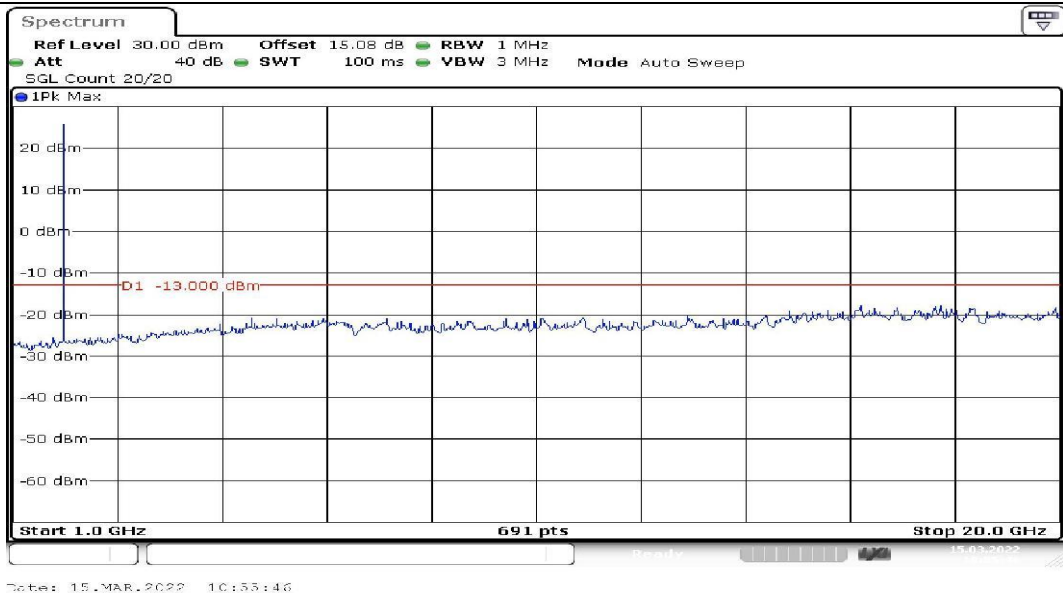
Channel 512



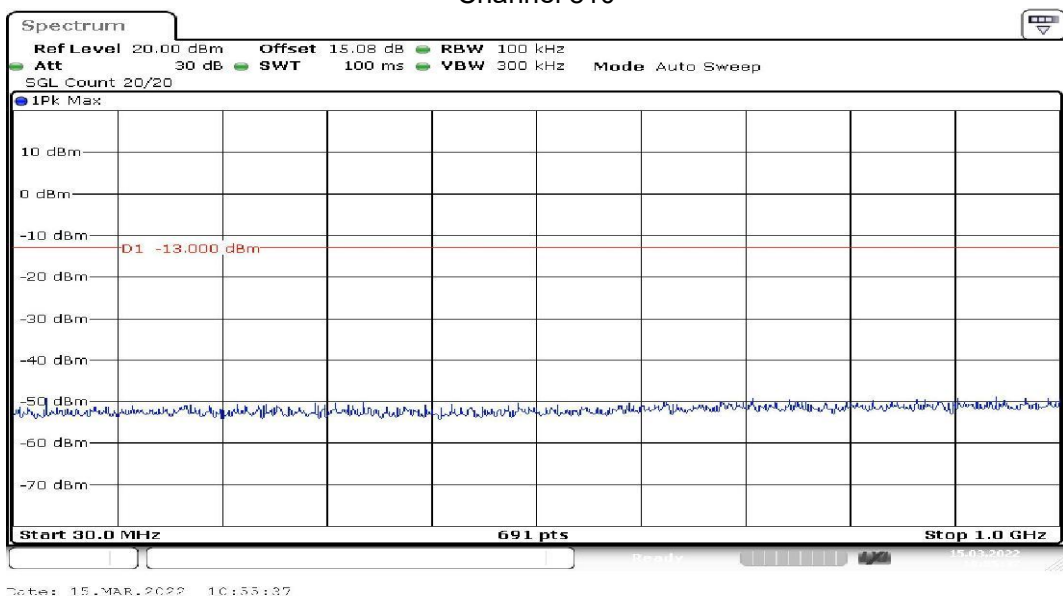
Channel 661



Channel 661

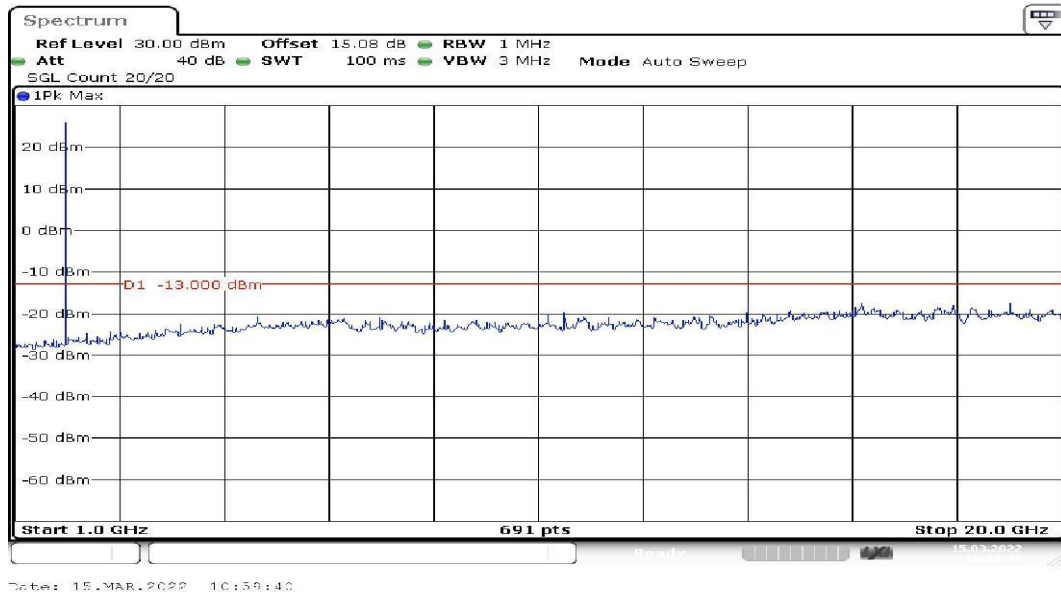


Channel 810

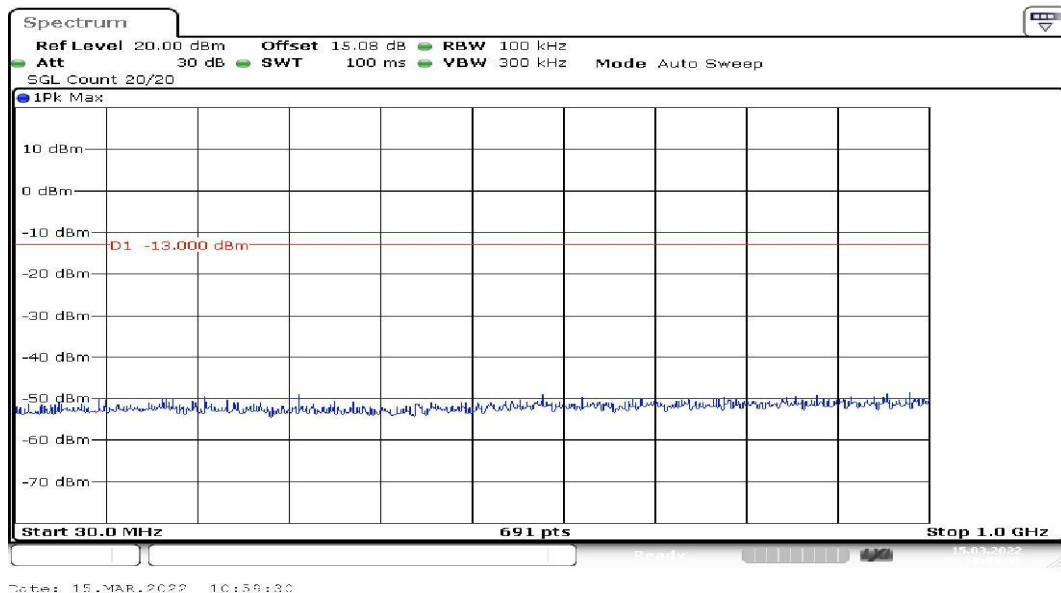


Channel 810

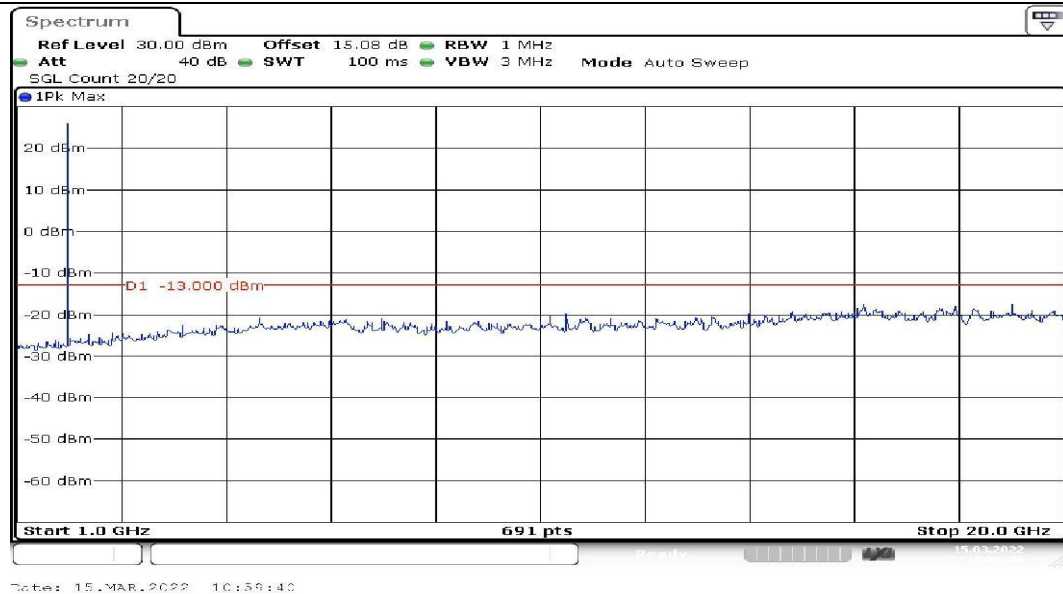
GPRS MODE:



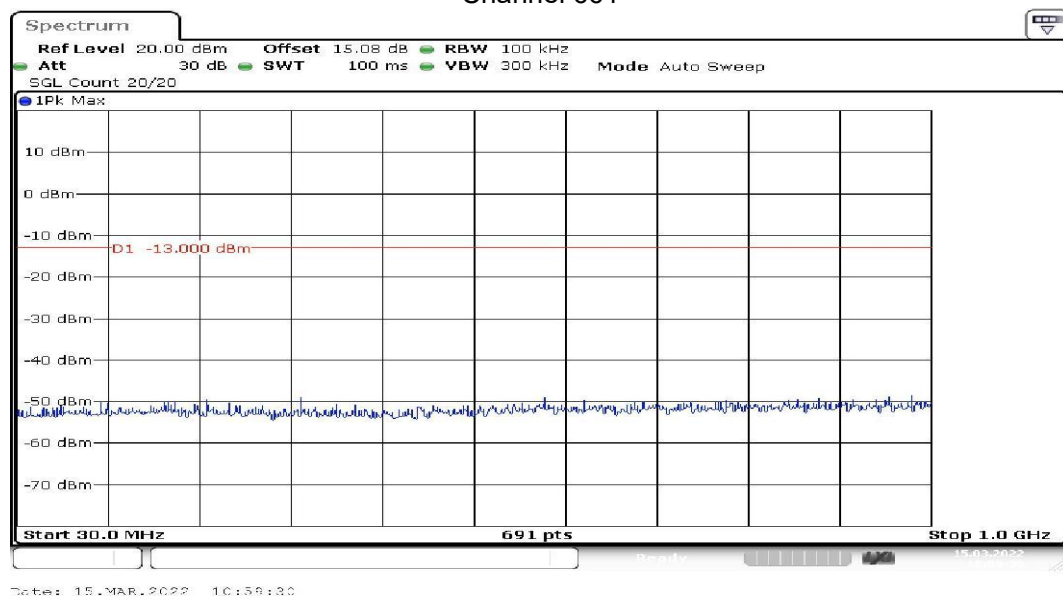
Channel 512



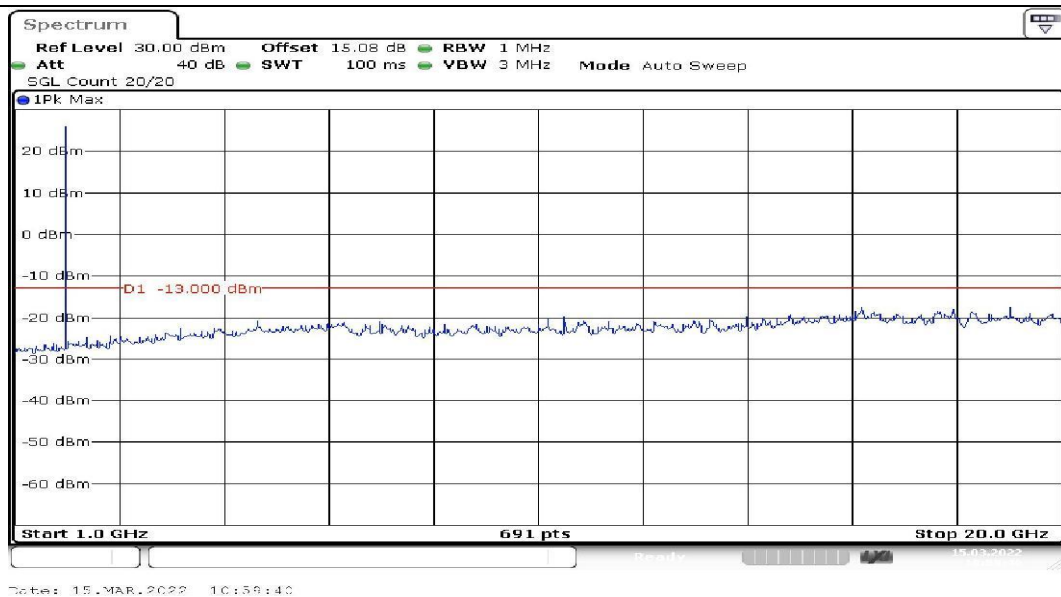
Channel 512



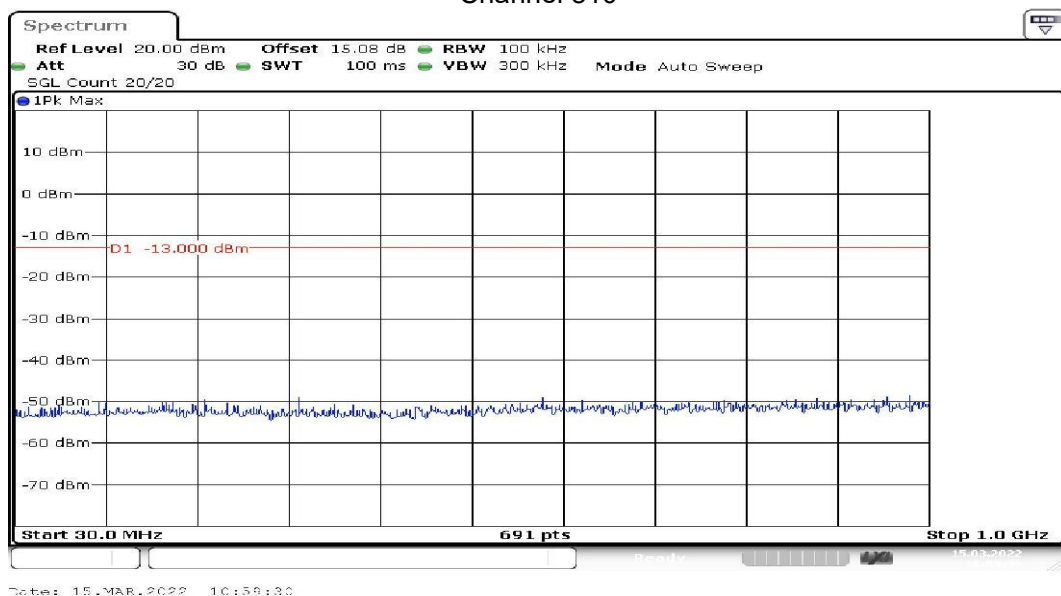
Channel 661



Channel 661

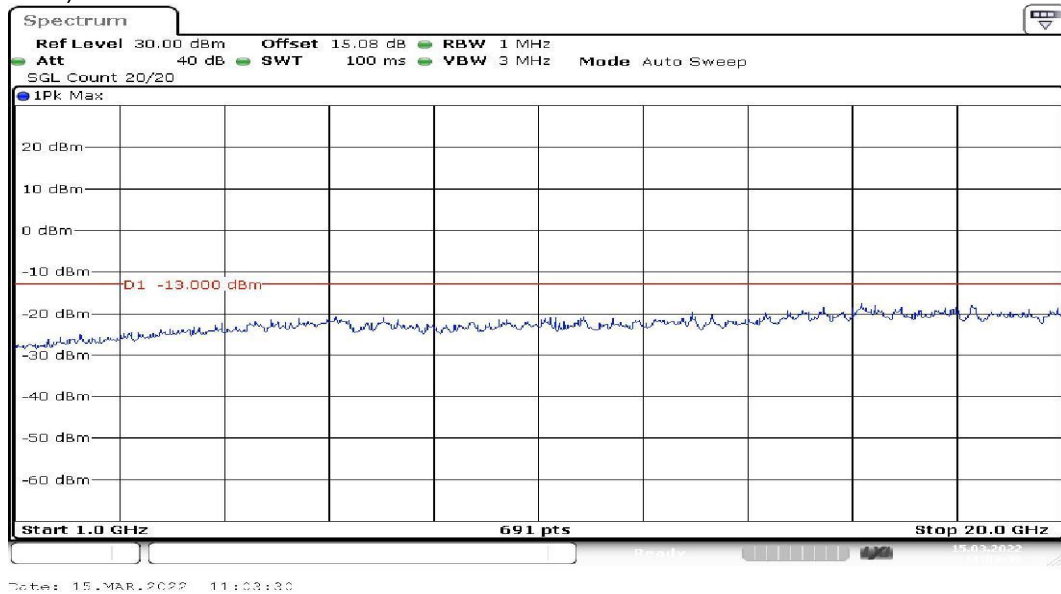


Channel 810

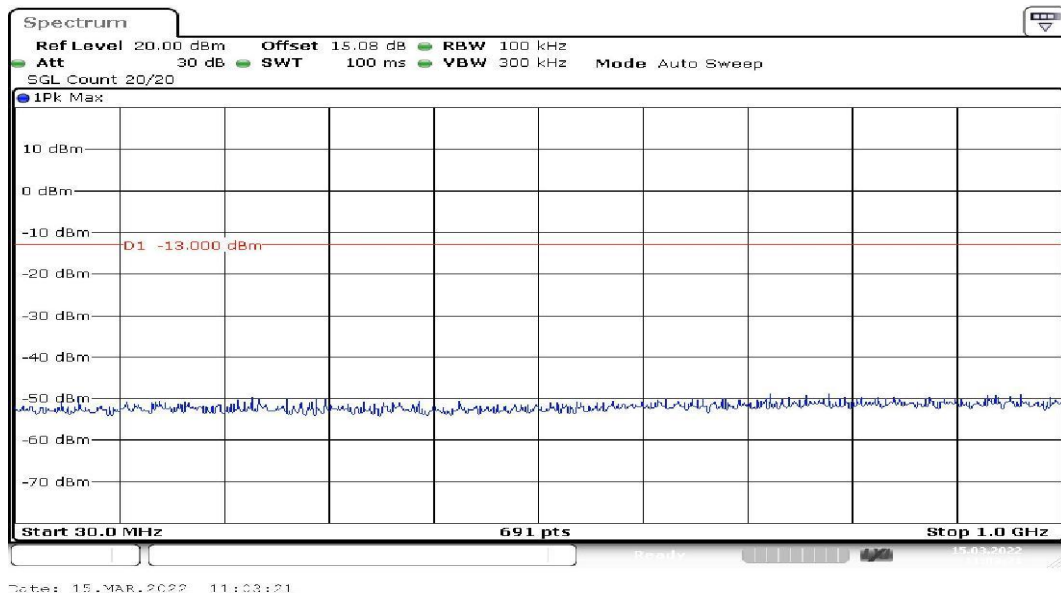


Channel 810

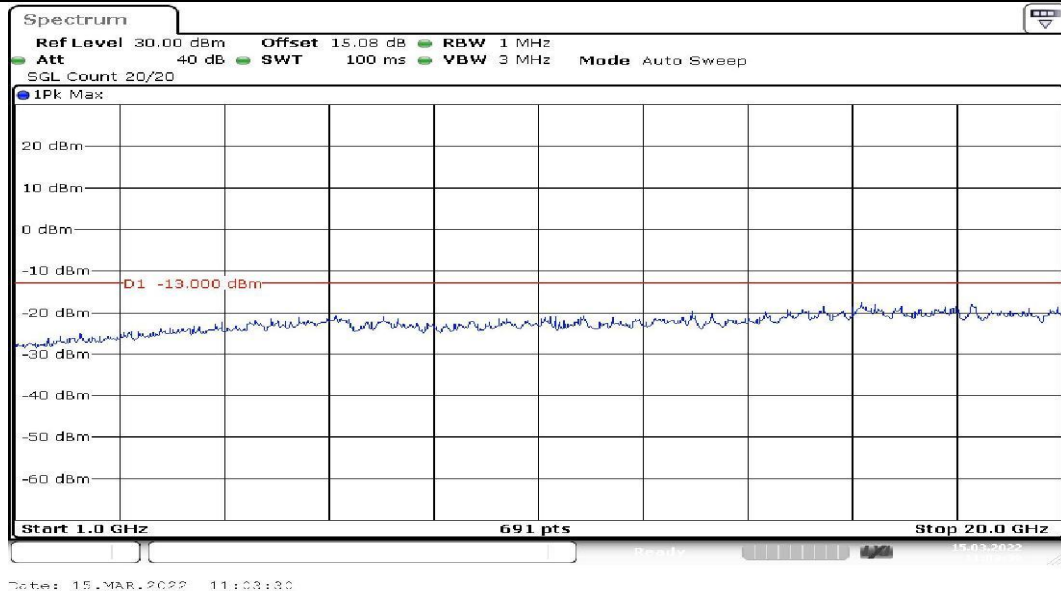
EGPRS (8PSK) MODE:



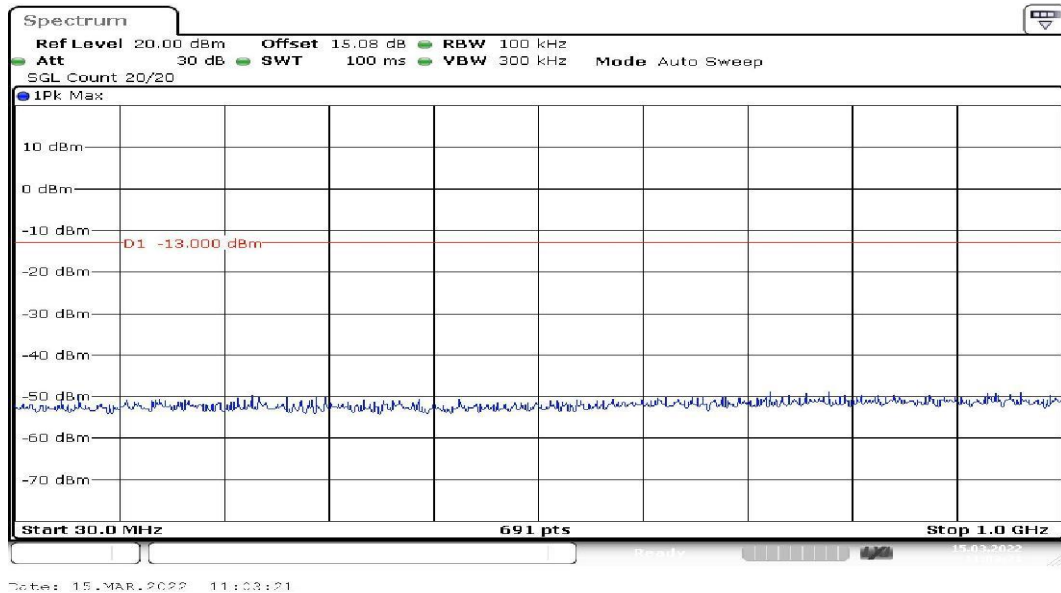
Channel 512



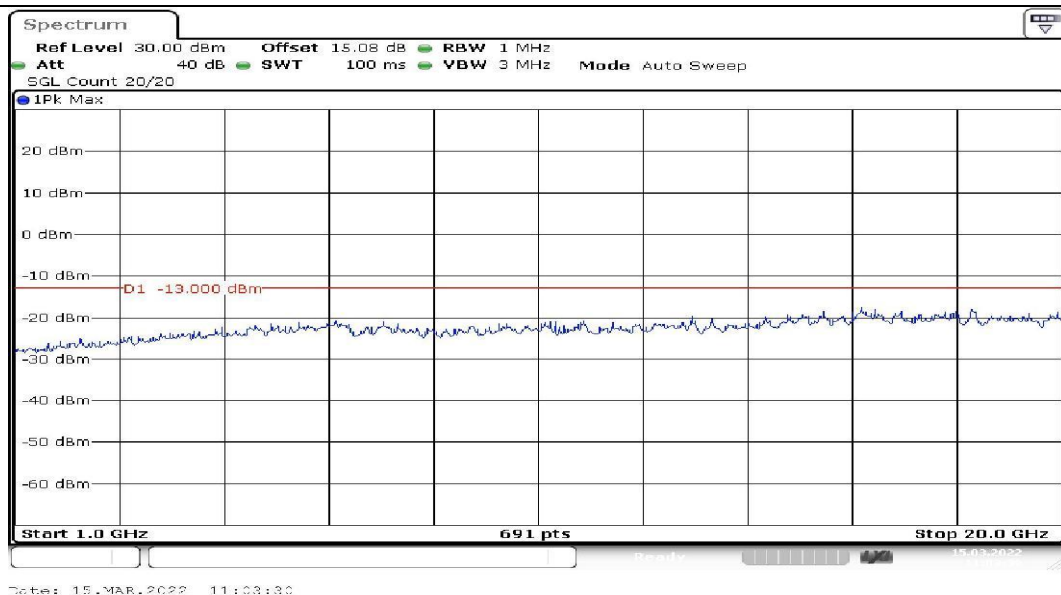
Channel 512



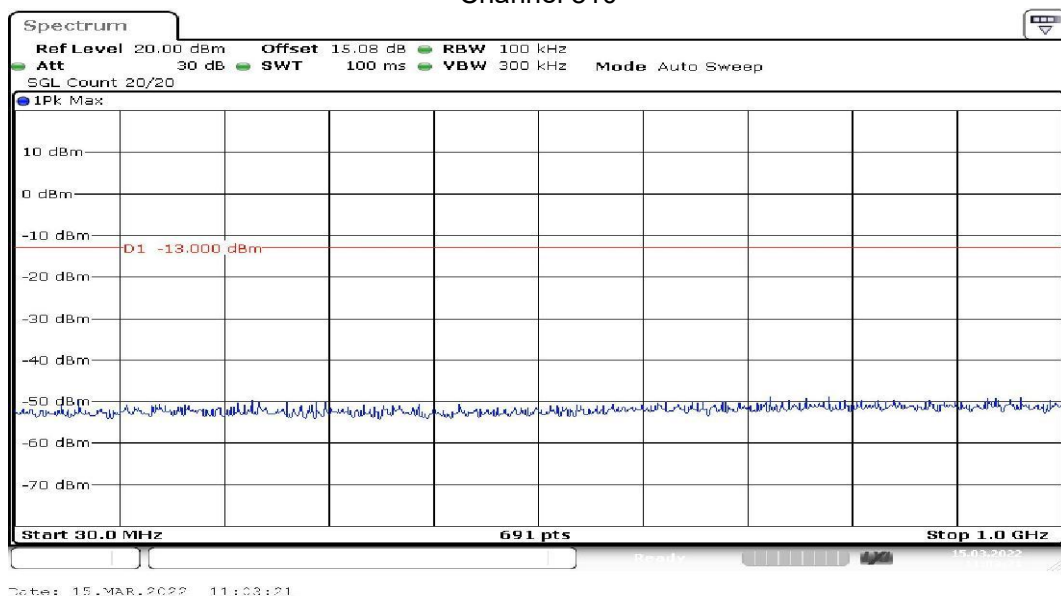
Channel 661



Channel 661



Channel 810

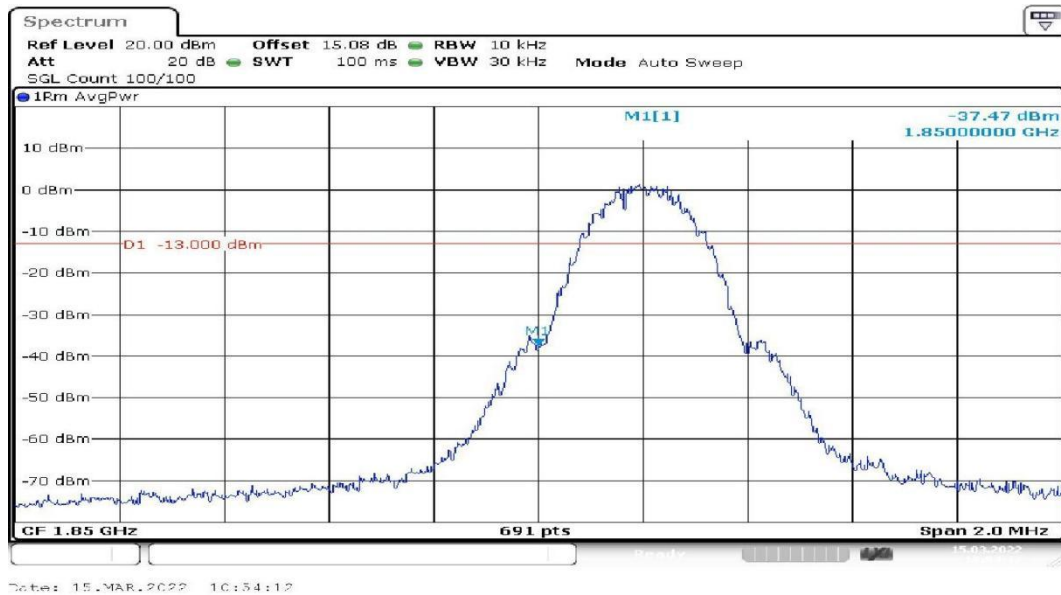


Channel 810

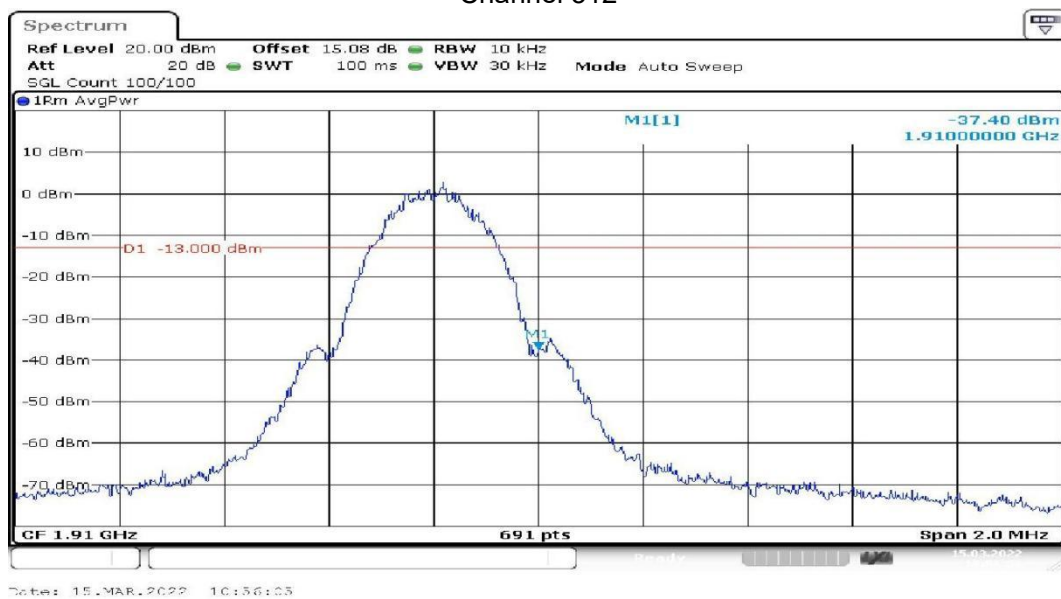
5. Band Edges Compliance

PCS1900

GSM MODE:

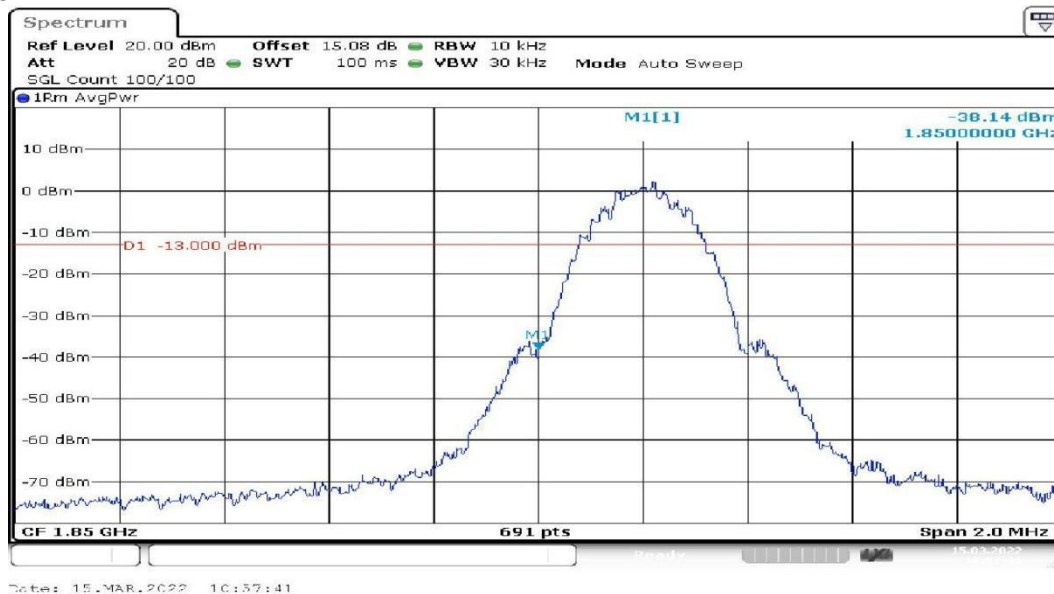


Channel 512

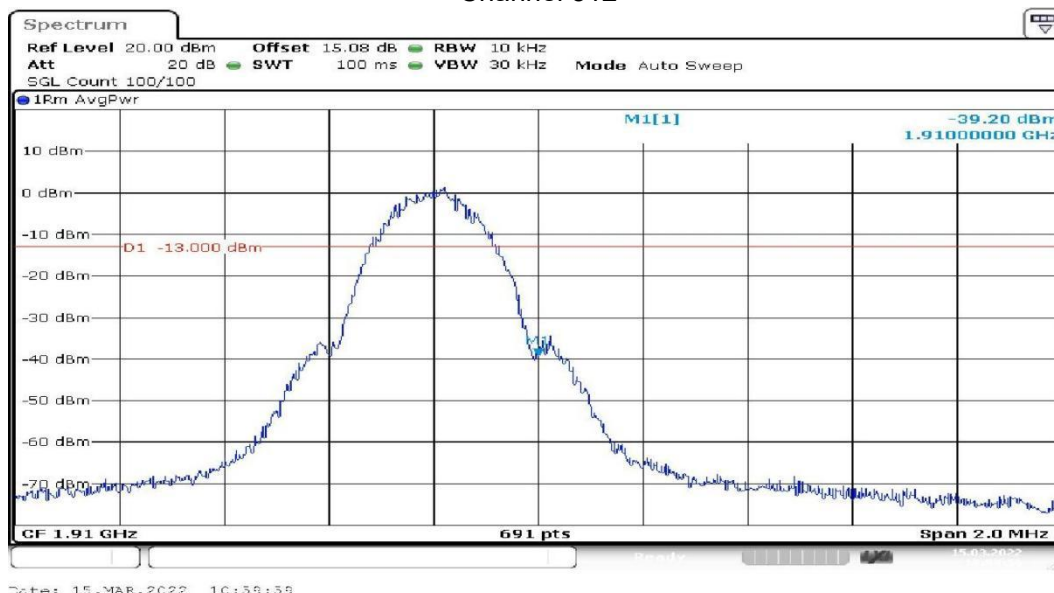


Channel 810

GPRS MODE:

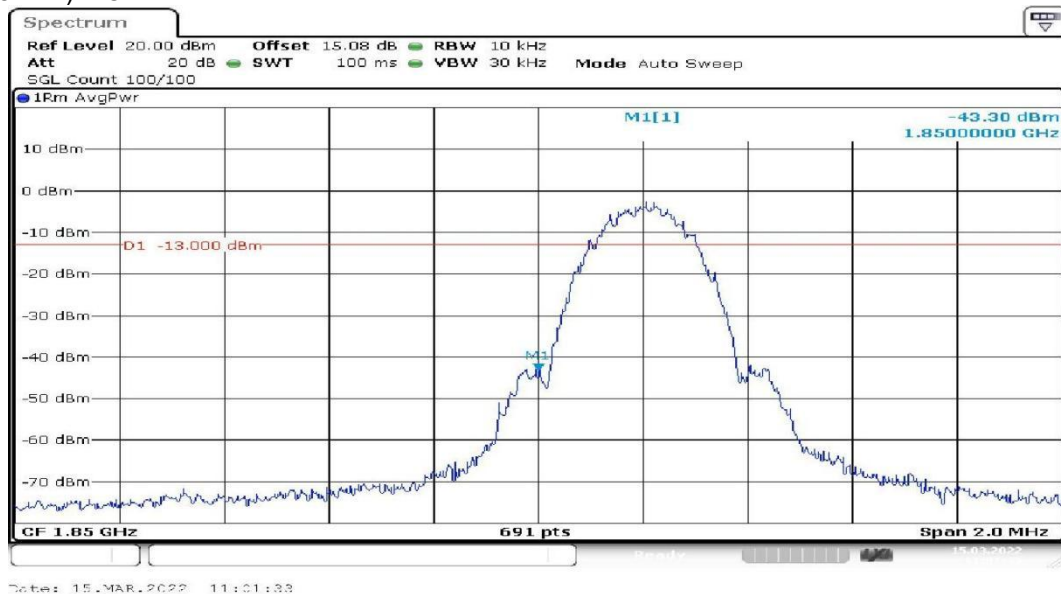


Channel 512

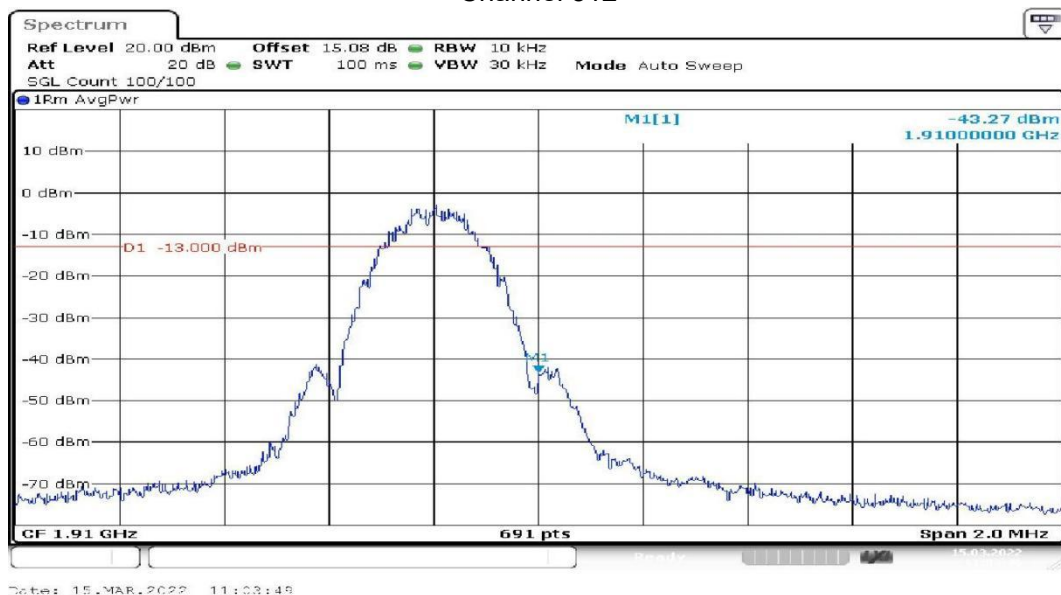


Channel 810

EGPRS (8PSK) MODE:



Channel 512



Channel 810

6. Frequency Stability

PCS1900

GSM MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-10	0.002	-0.003	-0.002
0	0.001	0.003	-0.001
+10	0.000	-0.002	-0.002
+30	0.000	-0.001	-0.002
+40	0.007	0.000	0.002
+50	-0.002	0.007	0.005
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	-0.001	-0.003	-0.002
HV	-0.002	-0.002	-0.001

GPRS MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-10	0.011	0.003	-0.002
0	-0.002	0.002	0.002
+10	-0.003	0.005	0.005
+30	0.003	0.001	0.002
+40	0.002	0.001	0.004
+50	0.000	0.005	0.007
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	0.009	0.004	0.002
HV	0.000	-0.002	0.003

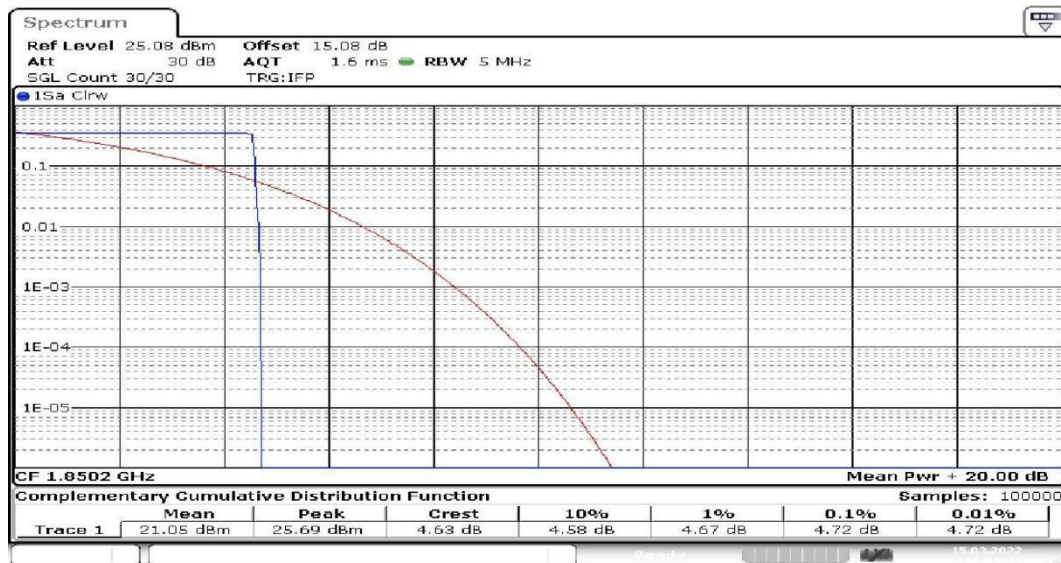
EGPRS (8PSK) MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-10	0.016	0.005	-0.004
0	0.004	0.005	-0.004
+10	0.005	0.007	0.002
+30	0.008	0.008	-0.005
+40	0.005	0.010	-0.002
+50	0.000	0.016	-0.002
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	0.007	0.004	-0.003
HV	0.008	0.000	-0.002

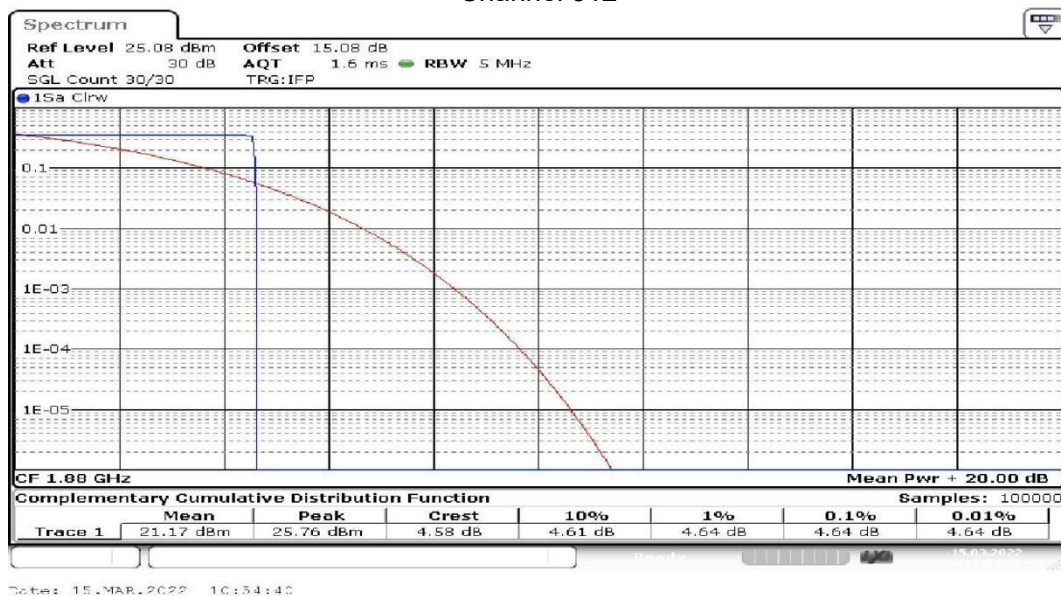
7. Peak-Average Ratio

PCS1900

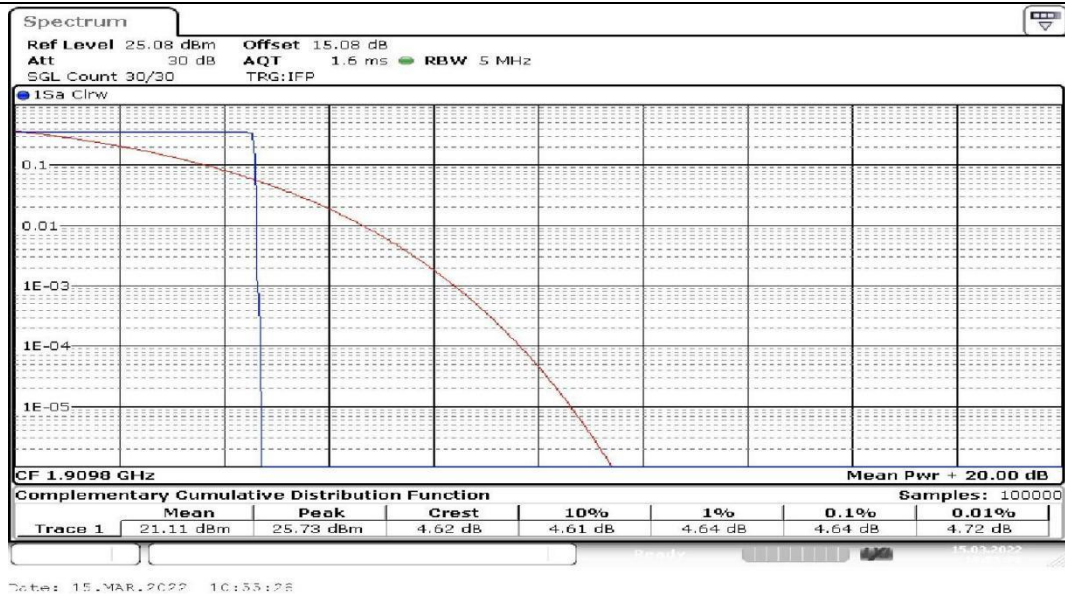
GSM MODE:



Channel 512

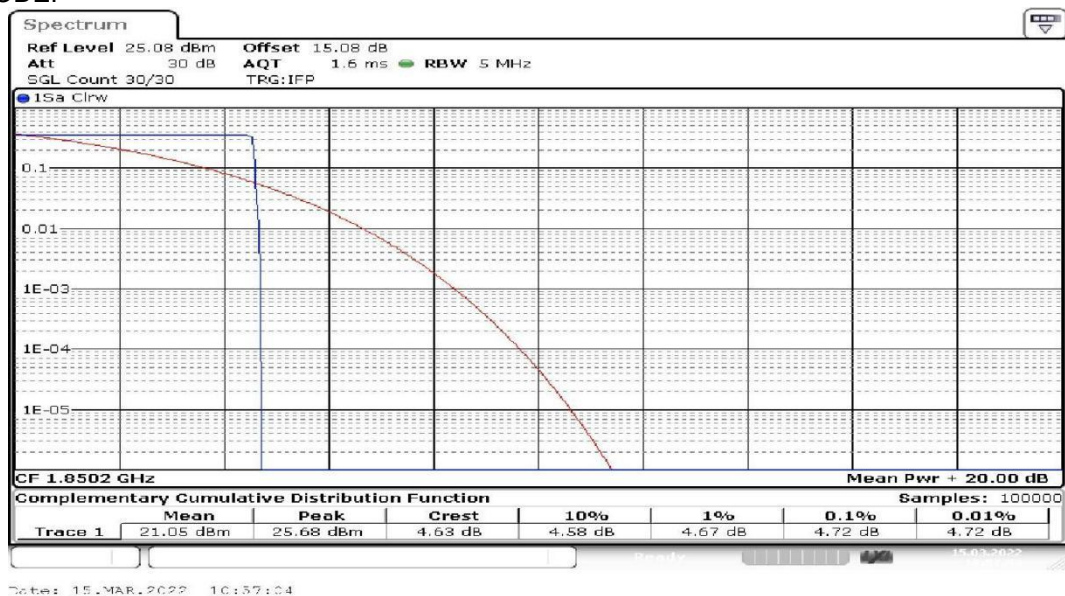


Channel 661

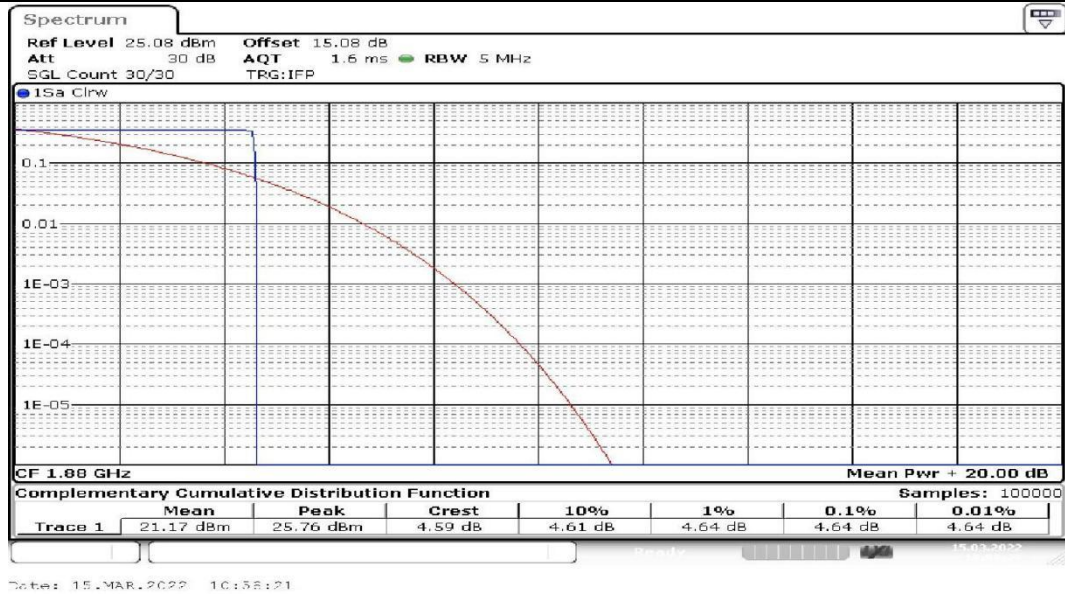


Channel 810

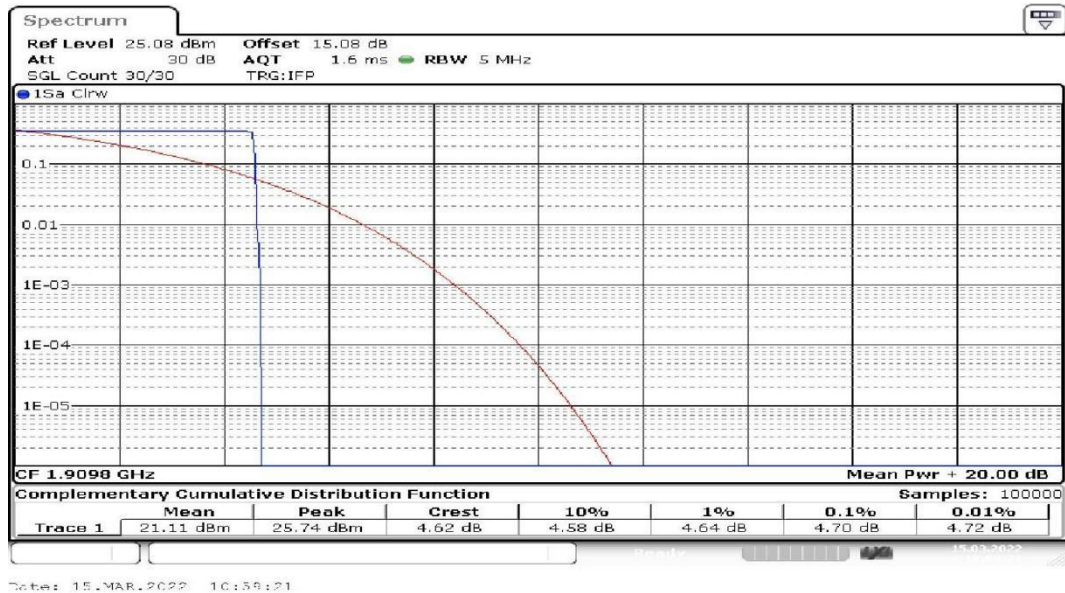
GPRS MODE:



Channel 512

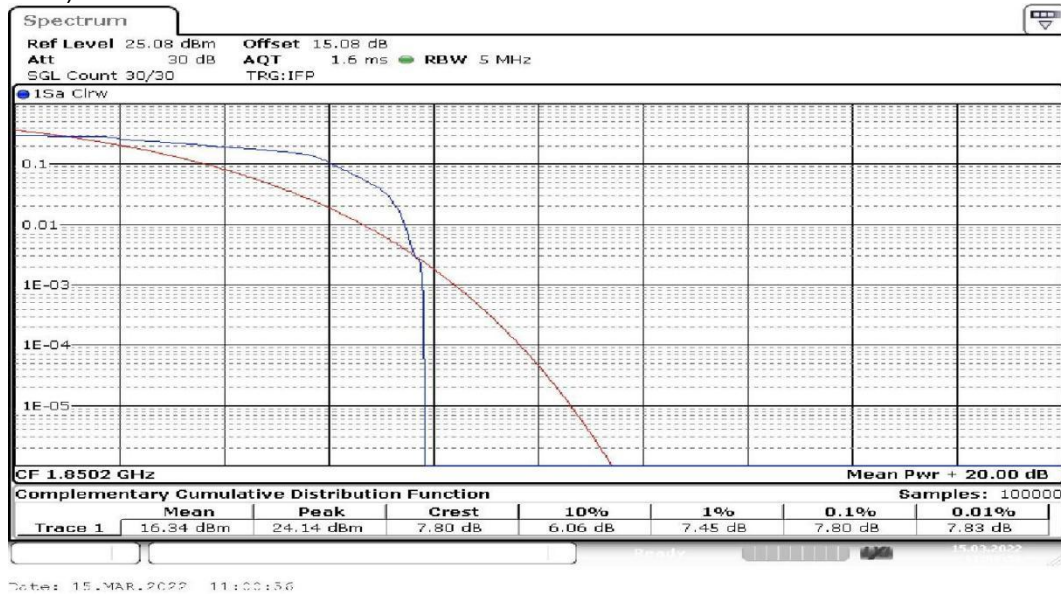


Channel 661

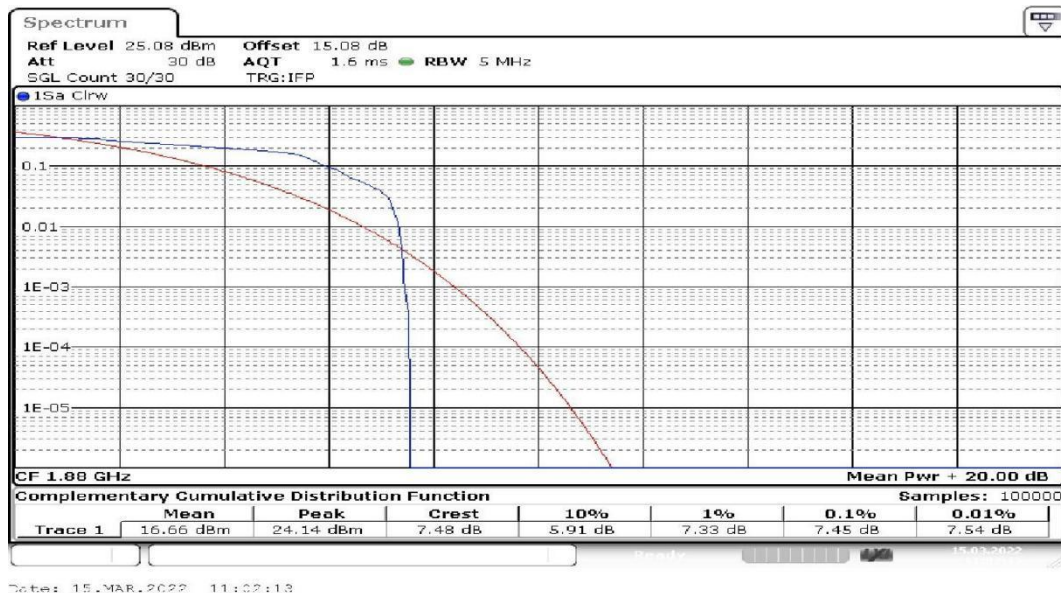


Channel 810

EGPRS (8PSK) MODE:



Channel 512



Channel 661



Channel 810

8. Effective Radiated Power and Effective Isotropic Radiated Power

PCS1900

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	26.00	26.54	0.451
1880	661	25.92	26.46	0.443
1909.8	810	25.99	26.53	0.450

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	4Down1Up	25.98	26.52	0.449
1880	661		25.91	26.45	0.442
1909.8	810		25.99	26.53	0.450
1850.2	512	3Down2Up	23.21	23.75	0.237
1880	661		22.91	23.45	0.221
1909.8	810		22.76	23.30	0.214
1850.2	512	2Down3Up	21.79	22.33	0.171
1880	661		21.50	22.04	0.160
1909.8	810		21.33	21.87	0.154
1850.2	512	1Down4Up	19.67	20.21	0.105
1880	661		19.40	19.94	0.099
1909.8	810		19.28	19.82	0.096

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	4Down1Up	21.60	22.14	0.164
1880	661		22.74	23.28	0.213
1909.8	810		21.13	21.67	0.147
1850.2	512	3Down2Up	20.64	21.18	0.131
1880	661		19.27	19.81	0.096
1909.8	810		19.01	19.55	0.090
1850.2	512	2Down3Up	16.69	17.23	0.053
1880	661		16.70	17.24	0.053
1909.8	810		17.08	17.62	0.058
1850.2	512	1Down4Up	16.64	17.18	0.052
1880	661		16.37	16.91	0.049
1909.8	810		15.71	16.25	0.042

1. Effective Radiated Power and Effective Isotropic Radiated Power

PCS1900

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	26.02	26.56	0.453
1880	661	26.02	26.56	0.453
1909.8	810	26.07	26.61	0.458

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	4Down1Up	26.01	26.55	0.452
1880	661		26.01	26.55	0.452
1909.8	810		26.07	26.61	0.458
1850.2	512	3Down2Up	23.31	23.85	0.243
1880	661		23.06	23.60	0.229
1909.8	810		22.97	23.51	0.224
1850.2	512	2Down3Up	21.73	22.27	0.169
1880	661		21.49	22.03	0.160
1909.8	810		21.40	21.94	0.156
1850.2	512	1Down4Up	19.65	20.19	0.104
1880	661		19.41	19.95	0.099
1909.8	810		19.29	19.83	0.096

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	4Down1Up	21.71	22.25	0.168
1880	661		21.75	22.29	0.169
1909.8	810		21.26	21.80	0.151
1850.2	512	3Down2Up	19.86	20.40	0.110
1880	661		19.70	20.24	0.106
1909.8	810		19.11	19.65	0.092
1850.2	512	2Down3Up	17.03	17.57	0.057
1880	661		17.45	17.99	0.063
1909.8	810		16.77	17.31	0.054
1850.2	512	1Down4Up	16.50	17.04	0.051
1880	661		15.58	16.12	0.041
1909.8	810		16.04	16.58	0.045

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Spurious Emissions

Note: The worst channel results are reflected in the report.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

850 Test result

GSM/GPRS MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1230.781250	-69.89	-13.00	Vertical
1672.812500	-53.19	-13.00	Vertical
2508.437500	-59.09	-13.00	Vertical
3346.406250	-63.47	-13.00	Vertical
4181.718750	-48.28	-13.00	Vertical
4951.093750	-62.02	-13.00	Vertical

EDGE MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1199.843750	-71.22	-13.00	Vertical
1672.968750	-69.81	-13.00	Vertical
2345.781250	-68.96	-13.00	Vertical
2491.406250	-67.84	-13.00	Vertical
3741.093750	-64.82	-13.00	Vertical
4820.156250	-61.04	-13.00	Vertical

1900 Test result

GSM/GPRS MODE Channel 661:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
4673.906250	-61.91	-13.00	Vertical
4937.812500	-61.37	-13.00	Vertical
6439.218750	-60.16	-13.00	Vertical
8778.750000	-56.12	-13.00	Vertical
11568.281250	-56.11	-13.00	Vertical
15143.906250	-51.61	-13.00	Vertical

EDGE MODE Channel 661:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
4733.437500	-61.80	-13.00	Vertical
7145.156250	-58.90	-13.00	Vertical
8787.187500	-56.99	-13.00	Vertical
10573.593750	-59.03	-13.00	Vertical
12479.062500	-57.29	-13.00	Vertical
17399.062500	-46.74	-13.00	Vertical

---End of Test Report---